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**United States Patent** [19][11] **Patent Number:** **5,966,440****Hair**[45] **Date of Patent:** **Oct. 12, 1999**

[54] **SYSTEM AND METHOD FOR  
TRANSMITTING DESIRED DIGITAL VIDEO  
OR DIGITAL AUDIO SIGNALS**

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[63] Continuation of application No. 08/023,398, Feb. 26, 1993, which is a continuation of application No. 07/586,391, Sep. 18, 1990, Pat. No. 5,191,573, which is a continuation of application No. 07/206,497, Jun. 13, 1988, abandoned.

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[51] **Int. Cl.<sup>6</sup>** ..... **H04L 9/00; G11B 5/86**

**ABSTRACT**

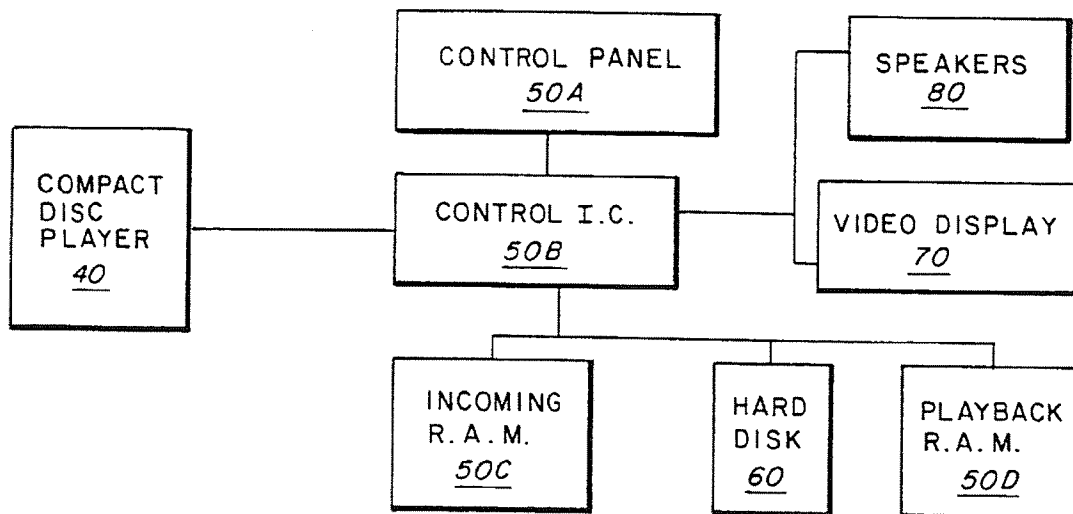
[52] **U.S. Cl.** ..... **380/4; 360/15; 364/918.51**

[58] **Field of Search** ..... 235/381, 380,  
235/375; 364/479, 410, 918, 918.51, 921,  
926.9, 926.91, 926.92, 926.93; 369/33,  
34, 84, 85; 360/15; 380/4

A method for transferring desired digital video or audio signals. The method comprises the steps of forming a connection through telecommunications lines between a first memory of a first party and a second memory of a second party. The first memory has the desired digital video or audio signals. Then, there is the step of selling electronically by the first party to the second party through telecommunications lines, the desired digital video or audio signals in the first memory. Then, there is the step of transferring the desired digital video or audio signals from the first memory of the first party to the second memory of the second party through the telecommunications lines while the second memory is in possession and control of the second party. Additionally, there is a system for transferring digital video or audio signals.

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**63 Claims, 2 Drawing Sheets**

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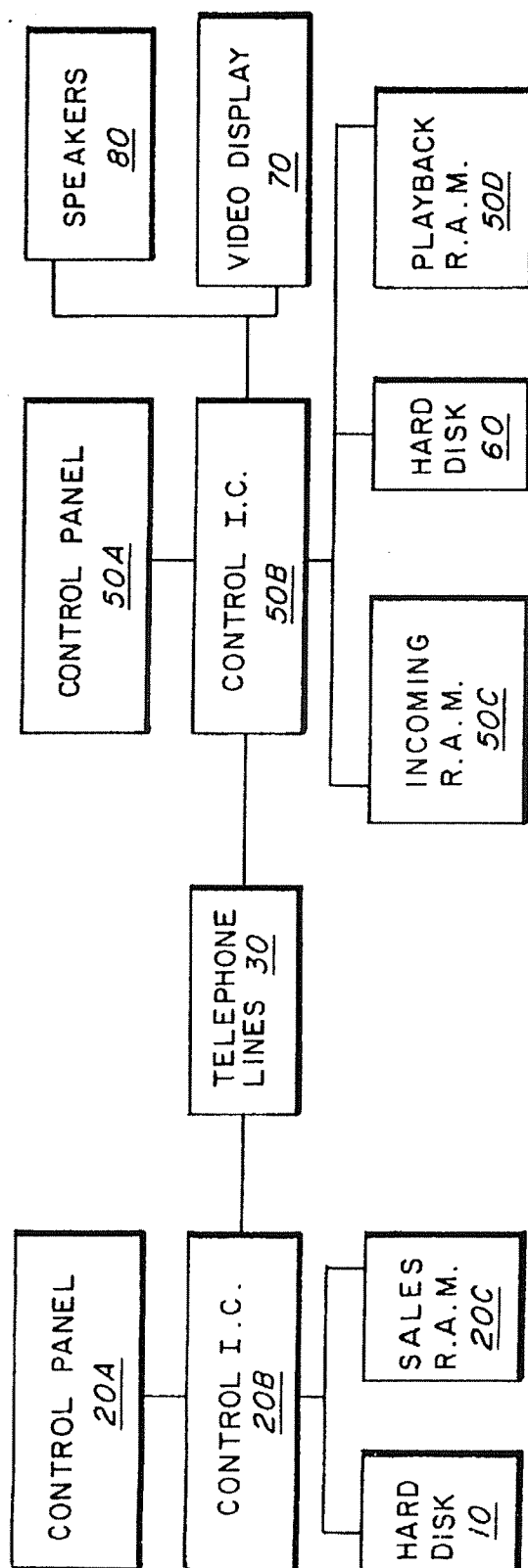


FIG. 1

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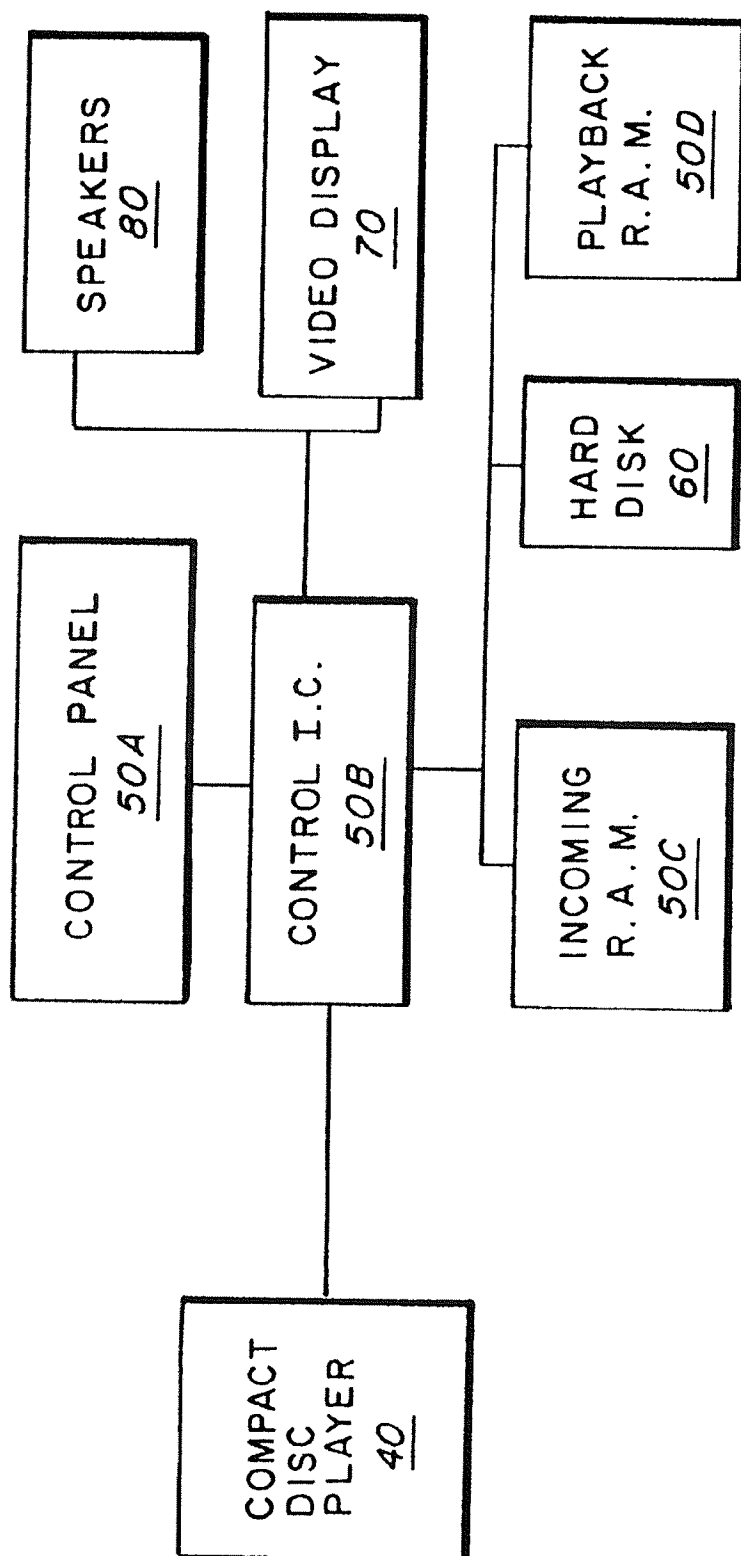


FIG. 2

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## SYSTEM AND METHOD FOR TRANSMITTING DESIRED DIGITAL VIDEO OR DIGITAL AUDIO SIGNALS

### CROSS REFERENCE TO OTHER PATENTS

This is a continuation of copending application(s) Ser. No. 08/023,398 filed on Feb. 26, 1993. This is a continuation application of U.S. patent application Ser. No. 07/586,391 filed Sep. 18, 1990, now U.S. Pat. No. 5,191,573, issued Mar. 2, 1993, which is a continuation application of U.S. patent application Ser. No. 07/206,497, filed Jun. 13, 1988, abandoned.

### FIELD OF THE INVENTION

The present invention is related to a system and associated method for the electronic sales and distribution of digital audio or video signals, and more particularly, to a system and method which a user may purchase and receive digital audio or video signal from any location which the user has access to telecommunications lines.

### BACKGROUND OF THE INVENTION

The three basic mediums (hardware units) of music: records, tapes, and compact discs, greatly restricts the transferability of music and results in a variety of inefficiencies.

**CAPACITY:** The individual hardware units as cited above are limited as to the amount of music that can be stored on each.

**MATERIALS:** The materials used to manufacture the hardware units are subject to damage and deterioration during normal operations, handling, and exposure to the elements.

**SIZE:** The physical size of the hardware units imposes constraints on the quantity of hardware units which can be housed for playback in confined areas such as in automobiles, boats, planes, etc.

**RETRIEVAL:** Hardware units limit the ability to play, in a sequence selected by the user, songs from different albums. For example, if the user wants to play one song from ten different albums, the user would spend an inordinate amount of time handling, sorting, and cueing the ten different hardware units.

**SALES AND DISTRIBUTION:** Prior to final purchase, hardware units need to be physically transferred from the manufacturing facility to the wholesale warehouse to the retail warehouse to the retail outlet, resulting in lengthy lag time between music creation and music marketing, as well as incurring unnecessary and inefficient transfer and handling costs. Additionally, tooling costs required for mass production of the hardware units and the material cost of the hardware units themselves, further drives up the cost of music to the end user.

**QUALITY:** Until the recent invention of Digital Audio Music, as used on Compact Discs, distortion free transfer from the hardware units to the stereo system was virtually impossible. Digital Audio Music is simply music converted into a very basic computer language known as binary. A series of commands known as zeros or ones encode the music for future playback. Use of laser retrieval of the binary commands results in distortion free transfer of the music from the compact disc to the stereo system. Quality Digital Audio Music is defined as the binary structure of the Digital Audio Music. Conventional analog tape recording of Digital Audio Music is not to be considered quality inasmuch as the binary structure itself is not recorded. While

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Digital Audio Music on compact discs is a technological breakthrough in audio quality, the method by which the music is sold, distributed, stored, manipulated, retrieved, played and protected from copyright infringements remains as inefficient as with records and tapes.

**COPYRIGHT PROTECTION:** Since the invention of tape recording devices, strict control and enforcement of copyright laws have proved difficult and impossible with home recorders. Additionally, the recent invention of Digital Audio Tape Recorders now jeopardizes the electronic copyright protection of quality Digital Audio Music on Compact Discs or Digital Audio Tapes. If music exists on hardware units, it can be copied.

Thus, as is apparent from the above discussion, the inflexible form in which the songs are purchased by an end user, and the distribution channels of the songs, requires the end user to go to a location to purchase the songs, and not necessarily be able to purchase only the songs desired to be heard, in a sequence the end user would like to hear them. This is not limited to just songs, but also includes, for example, videos.

Accordingly, it is an objective of this invention is to provide a new and improved methodology/system to electronically sell and distribute Digital Audio Music or digital video.

A further objective of this invention to provide a new and improved methodology/system to electronically store and retrieve Digital Audio Music or digital video.

Another objective of this invention is to provide a new and improved methodology/system to electronically manipulate, i.e., sort, cue, and select, Digital Audio Music or digital video for playback.

Still another objective of this invention is to offer a new and improved methodology/system which can prevent unauthorized electronic copying of quality Digital Audio Music or digital video.

### SUMMARY OF THE INVENTION

Briefly, this invention accomplishes the above cited objectives by providing a new and improved methodology/system of electronic sales, distribution, storage, manipulation, retrieval, playback, and copyright protection of Digital Audio Music. The high speed transfer of Digital Audio Music as prescribed by this invention is stored onto one piece of hardware, a hard disk, thus eliminating the need to unnecessarily handle records, tapes, or compact discs on a regular basis. This invention recalls stored music for playback as selected/programmed by the user. This invention can easily and electronically sort stored music based on many different criteria such as, but not limited to, music category, artist, album, user's favorite songs, etc. An additional feature of this invention is the random playback of songs, also based on the user's selection. For example, the user could have this invention randomly play all jazz songs stored on the user's hard disk, or randomly play all songs by a certain artist, or randomly play all of the user's favorite songs which the user previously electronically "tagged" as favorites. Further, being more specific, the user can electronically select a series of individual songs from different albums for sequential playback.

This invention can be configured to either accept direct input of Digital Audio Music from the digital output of a Compact Disc, such transfer would be performed by the private user, or this invention can be configured to accept Digital Audio Music from a source authorized by the copyright holder to sell and distribute the copyrighted materials,

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thus guaranteeing the protection of such copyrighted materials. Either method of electronically transferring Digital Audio Music by means of this invention is intended to comply with all copyright laws and restrictions and any such transfer is subject to the appropriate authorization by the copyright holder. Inasmuch as Digital Audio Music is software and this invention electronically transfers and stores such music, electronic sales and distribution of the music can take place via telephone lines onto a hard disk. This new methodology/system of music sales and distribution will greatly reduce the cost of goods sold and will reduce the lag time between music creation and music marketing from weeks down to hours.

The present invention is a system for transmitting desired digital video or audio signals stored on a first memory of a first party to preferably a second memory of a second party. The system comprises means or mechanism for electronically selling the desired digital video or digital audio signals preferably via telecommunications lines to the first party from the second party. Moreover, the system preferably comprises means or mechanism for connecting electronically via telecommunications lines the first memory preferably with the second memory such that the desired digital video or digital audio signals can pass therebetween. Additionally, the system comprises means or mechanism for transmitting the desired digital video or audio signals from the first memory with a transmitter in control and in possession of the first party to a receiver preferably having the second memory. While the receiver is in possession and in control of the second party. The receiver is placed at a second party location determined by the second party. Preferably, there is also means or mechanism for storing the digital video or digital audio signal in the second memory.

Further objectives and advantages of this invention will become apparent as the following description proceeds and the particular features of novelty which characterize this invention will be pointed out in the claims annexed to and forming a part of this declaration.

#### BRIEF DESCRIPTION OF THE DRAWINGS

For a better understanding of this invention, reference should be made to the following detailed description, taken in conjunction with the accompanying drawings, in which:

FIG. 1 is a pictorial flow chart which may be used in carrying out the teachings of this invention for the purposes of electronic sales, distribution, storage, manipulation, retrieval, playback, and copyright protection of Digital Audio Music; and

FIG. 2 is a pictorial flow chart which may be used in carrying out the teachings of this invention for the purposes of electronic storage, manipulation, retrieval, and playback of Digital Audio Music.

#### DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the drawings wherein like reference numerals refer to similar or identical parts throughout the several views, and more specifically to figure thereof, there is shown.

Referring now to the FIG. 1, this invention preferably is comprised of the following:

- 10 Hard Disk of the copyright holder
- 20 Control Unit of the copyright holder
  - 20a Control Panel
  - 20b Control Integrated Circuit

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- 20c Sales Random Access Memory Chip
- 30 Telephone Lines/Input Transfer
- 50 Control Unit of the user
  - 50a Control Panel
  - 50b Control Integrated Circuit
  - 50c Incoming Random Access Memory Chip
  - 50d Play Back Random Access Memory Chip
- 60 Hard Disk of the user
- 70 Video Display Unit
- 80 Stereo Speakers

The Hard Disk 10 of the first party or agent authorized to electronically sell and distribute the copyrighted Digital Audio Music is the originating source of music in the configuration as outlined in FIG. 1. The Control Unit 20 of the authorized agent is the means by which the electronic transfer of the Digital Audio Music from the agent's Hard Disk 10 via the Telephone Lines 30 to the user's or second party's Control Unit 50 is possible. The user's Control Unit is comprised of a Control Panel 50a, a Control Integrated Circuit 50b, an Incoming Random Access Memory Chip 50c, and a Play Back Random Access Memory Chip 50d. Similarly, the authorized agent's Control Unit 20 has a control panel and control integrated circuit similar to that of the user's Control Unit 50. The authorized agent's Control Unit 20, however, only requires the Sales Random Access Memory Chip 20c. The other components in FIG. 1 include a Hard Disk 60, a Video Display Unit 70, and a set of Stereo Speakers 80.

Referring now to FIG. 2, with the exception of a substitution of a Compact Disc Player 40 (as the initial source of Digital Audio Music) for the agent's Hard Disk 10, the agent's Control Unit 20, and the Telephone Lines 30 in FIG. 1, FIG. 2 is the same as FIG. 1.

In FIG. 1 and FIG. 2, the following components are already commercially available: the agent's Hard Disk 10, the Telephone Lines 30, the Compact Disc Player 40, the user's Hard Disk 60, the Video Display Unit 70, and the Stereo Speakers 80. The Control Units 20 and 50, however, would be designed specifically to meet the teachings of this invention. The design of the control units would incorporate the following functional features:

- 1) the Control Panels 20a and 50a would be designed to permit the agent and user to program the respective Control Integrated Circuits 20b and 50b,
- 2) the Control Integrated Circuits 20b and 50b would be designed to control and execute the respective commands of the agent and user and regulate the electronic transfer of Digital Audio Music throughout the system, additionally, the sales Control Integrated Circuit 20b could electronically code the Digital Audio Music in a configuration which would prevent unauthorized reproductions of the copyrighted material,
- 3) the Sales Random Access Memory Chip 20c would be designed to temporarily store user purchased Digital Audio Music for subsequent electronic transfer via telephone lines to the user's Control Unit 50,
- 4) the Incoming Random Access Memory Chip 50c would be designed to temporarily store Digital Audio Music for subsequent electronic storage to the user's Hard Disk 60,
- 5) the Play Back Random Access Memory Chip 50d would be designed to temporarily store Digital Audio Music for sequential playback.

The foregoing description of the Control Units 20 and 50 is intended as an example only and thereby is not restrictive with respect to the exact number of components and/or its actual design.

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Once the Digital Audio Music has been electronically stored onto the user's Hard Disk 60, having the potential to store literally thousands of songs, the user is free to perform the many functions of this invention. To play a stored song, the user types in the appropriate commands on the Control Panel 50a, and those commands are relayed to the Control Integrated Circuit 50b which retrieves the selected song from the Hard Disk 60. When a song is retrieved from the Hard Disk 60 only a replica of the permanently stored song is retrieved. The permanently stored song remains intact on the Hard Disk 60, thus allowing repeated playback. The Control Integrated Circuit 50b stores the replica onto the Play Back Random Access Memory Chip 50d at a high transfer rate. The Control Integrated Circuit 50b then sends the electronic output to the Stereo Speakers 80 at a controlled rate using the Play Back Random Access Memory Chip 50d as a temporary staging point for the Digital Audio Music.

Unique to this invention is that the Control Unit 50 also serves as the user's personal disk jockey. The user may request specific songs to be electronically cued for playback, or may request the Control Unit 50 to randomly select songs based on the user's criteria. All of these commands are electronically stored in random access memory enabling the control unit to remember prior commands while simultaneously performing other tasks requested by the user and, at the same time, continuing to play songs previously cued.

Offering a convenient visual display of the user's library of songs is but one more new and improved aspect of this invention. As the Control Unit 50 is executing the user's commands to electronically sort, select, randomly play, etc., the Video Display Screen 70 is continually providing feedback to the user. The Video Display Screen 70 can list/scroll all songs stored on the Hard Disk 60, list/scroll all cued songs, display the current command function selected by the user, etc. Further expanding upon the improvements this invention has to offer, the Video Display Screen 70 can display the lyrics of the song being played, as well as the name of the song, album, artist, recording company, date of recording, duration of song, etc. This is possible if the lyrics and other incidental information are electronically stored to the Hard Disk 60 with the Digital Audio Music.

The present invention is a method for transmitting desired digital video or digital audio signals stored on a first memory of a first party preferably to a second memory of a second party. The method comprises the steps of transferring money via telecommunications lines to the first party from the second party or electronically selling to the second party by the first party. Additionally, the method comprises the step of then connecting electronically via telecommunications lines the first memory preferably with the second memory such that the desired digital video or digital audio signals can pass therebetween. Next, there is the step of transmitting the desired digital video or digital audio signals from the first memory with a transmitter in control and in possession of the first party to a receiver preferably having the second memory. While the receiver is in possession and in control of the second party. The receiver is placed by the second party at a second party location determined by the second party. There preferably is also the step of then storing the desired digital video or digital audio signals in the second memory.

In summary, there has been disclosed a new and improved methodology/system by which Digital Audio Music or digital video can be electronically sold, distributed, transferred, and stored. Further, there has been disclosed a new and improved methodology/system by which Digital Audio

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Music or digital video can be electronically manipulated, i.e., sorted, cued, and selected for playback. Further still, there has been disclosed a new and improved methodology/system by which the electronic manipulation of Digital Audio Music can be visually displayed for the convenience of the user. Additionally, there has been disclosed a new and improved methodology/system by which electronic copyright protection of quality Digital Audio Music is possible through use of this invention.

Since numerous changes may be made in the above described process and apparatus and different embodiments of the invention may be made without departing from the spirit thereof, it is intended that all matter contained in the foregoing description or shown in the accompanying drawings shall be interpreted as illustrative, and not in a limiting sense. Further, it is intended that this invention is not to be limited to Digital Audio Music and can include Digital Video, Digital Commercials, and other applications of digital information.

For instance, the present invention is a system 100 for transferring digital video signals from a first party to a second party. The system 100 comprises a first party control unit 20 having a first memory having a plurality of desired individual video selections as desired digital video signals. The first party control unit 20 also has means or a mechanism for the first party to charge a fee to the second party for access to the desired digital video signals. The system 100 also comprises a second party control unit 50 having a second party control panel 50a, a receiver and a video display for playing the desired digital video or digital audio signals received by the receiver. The second party control panel 50a is connected to the video display and the receiver. The receiver and the video display is operatively controlled by the second party control panel 50a. The second party control unit 50 is remote from the first party control unit 20. The second party control unit 50 is placed by the second party at a second party location determined by the second party which is remote from the first party control unit 20. The second party chooses the desired digital video signals from the first memory with the second party control panel 20a. The system 100 is also comprised of telecommunications lines connected to the first party control unit 20 and the second party control unit 50 through which the desired digital video signals are electronically transferred from the first memory to the receiver while the second party control unit 50 is in possession and control of the second party after the desired digital video signals are sold to the second party by the first party.

Preferably, the second party control unit 50 includes a second memory which is connected to the receiver and the video display. The second memory stores the digital video signals that are received by the receiver for providing them to the video display. The second party control unit 50 preferably includes a second party hard disk 60 which stores a plurality of digital video signals, and a playback random access memory chip 50d electronically connected to the second party hard disk 60 for storing a replica of the desired digital video signals as a temporary staging area for playback. The second party control unit 50 includes a second party control integrated circuit 50b which controls and executes commands of the second party and is connected to the second party hard disk 60, the playback random access memory 50d, and the first party control integrated circuit 20b through the telecommunications lines. The second party control integrated circuit 50b preferably includes the receiver. Additionally, the second party control unit 50 includes a second party control panel 20a through which the

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second party control integrated circuit 20b is programmed and is sent commands and which is connected to the second party integrated circuit 50b. Preferably, the second party control unit 50 includes an incoming random access memory chip 50c connected to the second party hard drive 60 and the second party control integrated circuit 50b, and the first party control unit 20 through the telecommunications lines for temporarily storing the desired digital video signals received from the first party's control unit 20 for subsequent storage to the second party hard disk 60. Preferably, the video display includes a video display unit connected to the playback random access memory chip 50c and to the second party integrated circuit 50b for displaying the desired digital video signals.

The first party control unit 20 preferably includes a first party hard disk 10 having a plurality of digital video signals which include the desired digital video signals, and a sales random access memory chip 20c electronically connected to the first party hard disk 10 for storing a replica of the desired digital video signals of the first party's hard disk 10. The first party control unit 20 preferably includes a first party control integrated circuit 20b which controls and executes commands of the first party and is connected to the first party hard disk 10, the first party sales random access memory 20c, and the second party control integrated circuit 20b through the telecommunications lines. The first party control integrated circuit 20b and the second party control integrated circuit 50b regulate the transfer of the desired digital video signals. The first party control unit 20 preferably also includes a first party control panel 20a through which the first party control integrated circuit 20b is programmed and is sent commands and which is connected to the first party control integrated circuit 20b.

The means or mechanism for charging a fee includes means or a mechanism for charging a fee via telecommunications lines by the first party to the second party at a location remote from the second party location. Preferably, the second party has an account and the means or mechanism for charging a fee includes means or a mechanism for charging the account of the second party. Preferably, the means or mechanism for charging the account includes means or a mechanism for charging a credit card number of the second party. Preferably, the means or mechanism for electronically selling includes means or a mechanism for electronically selling includes means or a mechanism for charging a fee via telecommunications lines by the first party to the second party at a first party location remote from the second party location. Preferably, the second party has an account and the means or mechanism for charging a fee includes means or a mechanism for charging the account of the second party. Preferably, the means or mechanism for charging the account includes means or a mechanism for receiving a credit card number of the second party. The means or mechanism for receiving a credit card number preferably is part of the control integrated circuit 20b. The telecommunications lines are preferably telephone lines 30.

The present invention also pertains to a method for transmitting desired digital video signals stored in a first memory having a plurality of individual video selections as digital video signals of a first party at a first party location to a second party at a second party location so the second party can view the desired digital video signals. The method comprises the steps of placing by the second party a receiver, and a video display connected to the receiver at the second party location determined by the second party which is remote from the first party location. Next, there is the step of charging a fee by the first party to the second party at a

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location remote from the second party location so the second party can obtain access to the desired digital video signals. Then, there is the step of connecting electronically via telecommunications lines the first memory with a receiver of the second party while the receiver is in possession and control of the second party. Next, there is the step of choosing the desired digital video signals by the second party from the first memory of the first party so desired digital video selections are selected. Next, there is the step of transmitting the desired digital video signals from the first memory with a transmitter in control and possession of the first party to the receiver of the second party while the receiver is in possession and control of the second party at the second party location determined by the second party. Next, there is the step of displaying the desired video signals received by the receiver on a video display in possession and control of the second party. The video display is connected with the receiver.

Preferably, the step of charging a fee includes the step of charging a fee via telecommunications lines by the first party to the second party so the second party can obtain access to the desired digital video signals stored on the first memory. Preferably, the second party has an account and the step of charging a fee includes the step of charging the account of the second party. Preferably, the step of charging the account of the second party includes the steps of telephoning the first party controlling use of the first memory by the second party. Then, there is the step of providing a credit card number of the second party controlling the second memory to the first party controlling the first memory so the second party is charged money. Preferably, the means or mechanism for the first party to charge a fee includes means or a mechanism for transferring money electronically via telecommunications lines to the first party at a location remote from the second memory at the second location.

Although the invention has been described in detail in the foregoing embodiments for the purpose of illustration, it is to be understood that such detail is solely for that purpose and that variations can be made therein by those skilled in the art without departing from the spirit and scope of the invention except as it may be described by the following claims.

What is claimed is:

1. A method for transferring desired digital video or digital audio signals comprising the steps of:

forming a connection through telecommunications lines between a first memory of a first party and a second memory of a second party control unit of a second party, said first memory having said desired digital video or digital audio signals;

selling electronically by the first party to the second party through telecommunications lines, the desired digital video or digital audio signals in the first memory; and transferring the desired digital video or digital audio signals from the first memory of the first party to the second memory of the second party control unit of the second party through telecommunications lines while the second party control unit with the second memory is in possession and control of the second party; and playing through speakers of the second party control unit the digital video or digital audio signals in the second memory, said speakers of the second party control unit connected with the second memory of the second party control unit.

2. A method as described in claim 1 wherein the second party is at a second party location and the step of selling electronically includes the step of charging a fee via tele-

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communications lines by the first party to the second party at a first party location remote from the second party location.

3. A method as described in claim 2 wherein the second party has an account and the step of charging a fee includes the step of charging the account of the second party.

4. A method as described in claim 3 wherein the step of charging the account of the second party includes the steps of telephoning the first party controlling use of the first memory by the second party; providing a credit card number of the second party controlling the second memory to the first party controlling the first memory so the second party is charged money.

5. A method as described in claim 4 including after the transferring step, the step of storing the desired digital video or digital audio signals in the second memory.

6. A method as described in claim 5 including before the transferring step, the step of electronically coding the desired digital video or digital audio signals into a configuration which would prevent unauthorized reproduction of the desired digital video or digital audio signals.

7. A method as described in claim 6 wherein the first memory includes a first party hard disk having a plurality of digital video or digital audio signals, and a sales random access memory chip which temporarily stores a replica of the desired digital video or digital audio signals purchased by the second party for subsequent transfer via telecommunications lines to the second memory of the second party; and including before the transferring step, there is the step of storing a replica of the desired digital video or digital audio signals from the hard disk into the sales random access memory chip.

8. A method as described in claim 7 wherein the second party control unit has a second party integrated circuit which controls and executes commands of the second party, and a second party control panel connected to the second party integrated circuit, and before the forming step, there is the step of commanding the second party integrated circuit with the second party control panel to initiate the purchase of the desired digital video or digital audio signals from the first party.

9. A method as described in claim 5 wherein the second memory of the second party control unit includes an incoming random access memory chip which temporarily stores the desired digital video or digital audio signals received from the sales random access memory chip, a second party hard disk for storing the desired digital video or digital audio signals, and a playback random access memory chip for temporarily storing the desired digital video or digital audio signals for sequential playback; and the storing step includes the steps of storing the desired digital video or digital audio signals in the incoming random access memory chip, transferring the desired digital video or digital audio signals from the incoming random access memory chip to the second party hard disk, storing the desired digital video or digital audio signals in the second party hard disk, commanding the second party integrated circuit with the second party control panel to play the desired digital video or digital audio signals and transferring a replica of the desired digital video or digital audio signals from the second party hard disk to the playback random access memory chip for playback.

10. A method as described in claim 9 including after the transferring step, there is the step of repeating the commanding, playing, and transferring a replica steps.

11. A method for transferring digital video or digital audio signals from a first party to a second party comprising the steps of:

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placing a second party control unit in possession and control of the second party by the second party at a desired location determined by the second party;

entering into a second party control panel of the second party control unit of the second party commands by the second party to purchase desired digital video or digital audio signals from a first party;

forming a connection through telecommunications lines between a first memory of the first party and a second memory of the second party control unit, said first memory having desired digital video or digital audio signals;

selling electronically by the first party to the second party through telecommunications lines, the desired digital video or digital audio signals in the first memory;

transferring the desired digital video or digital audio signals from the first memory of the first party into the second memory of the second party through telecommunications lines while the second memory is in possession and control of the second party;

entering into the second party control panel commands to play the desired digital video or digital audio signals in the second memory of the second party control unit; and

playing the desired digital video or digital audio signals with the second party control unit.

12. A system for transferring digital video or digital audio signals comprising:

a first party control unit having a first memory having desired digital video or digital audio signals, and means or a mechanism for electronically selling the desired digital video or digital audio signals;

a second party control unit having a second party control panel, a second memory connected to the second party control panel, and means or a mechanism for playing the desired digital video or digital audio signals connected to the second memory and the second party control panel, said playing means or mechanism operatively controlled by the second party control panel, said second party control unit remote from the first party control unit, said second party control unit placed by the second party at a location determined by the second party; and

telecommunications lines connected to the first party control unit and the second party control unit through which the electronic sales of the desired digital video or digital audio signals occur and through which the desired digital video or digital audio signals are electronically transferred from the first memory to the second memory while the second memory is in possession and control of the second party after the desired digital video or digital audio signals are sold to the second party by the first party.

13. A system as described in claim 12 wherein the first party control unit includes a first party hard disk having a plurality of digital video or digital audio signals which include the desired digital video or digital audio signals, and a sales random access memory chip electronically connected to the first party hard disk for storing a replica of the desired digital video or digital audio signals of the first party's hard disk.

14. A system as described in claim 13 wherein the second party control unit includes a second party hard disk which stores a plurality of digital video or digital audio signals, and a playback random access memory chip electronically connected to the second party hard disk for storing a replica of

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the desired digital video or digital audio signals as a temporary staging area for playback.

15. A system as described in claim 14 wherein the first party control unit includes a first party control integrated circuit which controls and executes commands of the first party and is connected to the first party hard disk, the first party sales random access memory, and the second party control integrated circuit through the telecommunications lines, said first party control integrated circuit and said second party control integrated circuit regulate the transfer of the desired digital video or digital audio signals; and a first party control panel through which the first party control integrated circuit is programmed and is sent commands and which is connected to the first party control integrated circuit.

16. A system as described in claim 15 wherein the second party control unit includes a second party control integrated circuit which controls and executes commands of the second party and is connected to the second party hard disk, the playback random access memory, and the first party control integrated circuit through the telecommunications lines, said second party control integrated circuit and said first party control integrated circuit regulate the transfer of the desired digital video or digital audio signals; and a second party control panel through which the second party control integrated circuit is programmed and is sent commands and which is connected to the second party integrated circuit.

17. A system as described in claim 16 wherein the second party control unit includes an incoming random access memory chip connected to the second party hard drive and the second party control integrated circuit, and the first party control unit through the telecommunications lines for temporarily storing the desired digital video or digital audio signals received from the first party's control unit for subsequent storage to the second party hard disk.

18. A system as described in claim 17 wherein the second party control unit includes a video display unit connected to the playback random access memory chip and to the second party integrated circuit for displaying the desired digital video or digital audio signals.

19. A system as described in claim 12 wherein the means or mechanism for electronically selling includes means or a mechanism for electronically selling includes means or a mechanism for charging a fee via telecommunications lines by the first party to the second party at a first party location remote from the second party location.

20. A system as described in claim 19 wherein the second party has an account and the means or mechanism for charging a fee includes means or a mechanism for charging the account of the second party.

21. A system as described in claim 20 wherein the means or mechanism for charging the account includes means or a mechanism for receiving a credit card number of the second party.

22. A method for transmitting desired digital video or digital audio signals stored on a first memory of a first party to a second memory of a second party comprising the steps of:

placing a second party control unit having a receiver and the second memory connected to the receiver by the second party at a desired location determined by the second party;

selling electronically via telecommunications lines to the second party at a location remote from the first memory by the first party controlling use of the first memory, said second party financially distinct from the first party, said second party in control and in possession of the second memory;

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connecting electronically via telecommunications lines the first memory with the second memory such that the desired digital video or digital audio signals can pass therebetween;

transmitting the desired digital video or digital audio signals from the first memory with a transmitter in control and possession of the first party to the receiver of the second party control unit having the second memory at the location determined by the second party while said receiver is in possession and control of the second party;

storing the digital video or digital audio signals in the second memory; and playing the digital video or digital audio signals in the second memory with the second party control unit.

23. A system for transmitting desired digital video or digital audio signals stored on a first memory of a first party to a second memory of a second party comprising:

means or mechanism for transferring money electronically via telecommunications lines from the second party to the first party controlling use of the first memory, at a location remote from the second memory, said second party controlling use and in possession of the second memory;

means or a mechanism for connecting electronically via telecommunications lines the first memory with the second memory such that the desired digital video or digital audio signals can pass therebetween, said connecting means or mechanism in electrical communication with the transferring means or mechanism;

means or a mechanism for transmitting the desired digital video or digital audio signals from the first memory with a transmitter in control and possession of the first party to a receiver having the second memory while said receiver is in possession and control of the second party, said receiver placed at a location determined by the second party, said transmitting means or mechanism in electrical communication with said connecting means or mechanism;

means or a mechanism for storing the digital video or digital audio signals in the second memory, said storing means or mechanism in electrical communication with said transmitting means or mechanism; and means or mechanism for playing the digital video or digital audio signals stored in the second memory, said playing means or mechanism connected to the second memory.

24. A system as described in claim 23 wherein the connecting means or mechanism comprise a first control unit in possession and control of the first party and a second control unit in possession and control of the second party.

25. A system as described in claim 18 wherein the first control unit comprises a first control panel, first control integrated circuit and a sales random access memory, said sales random access memory and said first control panel in electrical communication with said first control integrated circuit, said second control unit comprising a second control panel, a second control integrated circuit, an incoming random access memory and a playback random access memory, said second control panel, said incoming random access memory and said playback random access memory in electrical communication with said second control integrated circuit.

26. A system as described in claim 25 wherein the telecommunications lines include telephone lines.

27. A system as described in claim 26 wherein the first memory comprises a first hard disk and the second memory comprises a second hard disk.

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28. A system as described in claim 27 including a video display and speakers in possession and control of the second party, said video display and speakers in electrical communication with said second control integrated circuit.

29. A system for transmitting desired digital video or digital audio signals stored on a first memory of a first party at a first location to a second memory of a second party at a second party location comprising:

means or a mechanism for the first party to charge a fee to the second party for access to the desired digital video or digital audio signals at a location remote from the second location, said first party controlling use of the first memory, said second party controlling use and in possession of the second memory;

means or a mechanism for connecting electronically via telecommunications lines the first memory with the second memory such that the desired digital video or digital audio signals can pass therebetween, said connecting means or mechanism in electrical communication with the transferring means or mechanism;

means or a mechanism for transmitting the desired digital video or digital audio signals from the first memory with a transmitter in control and possession of the first party to a receiver having the second memory while said receiver is in possession and control of the second party, said receiver placed by the second party at the second party location determined by the second party, said transmitting means or mechanism in electrical communication with said connecting means or mechanism;

means or a mechanism for storing the digital video or digital audio signals in the second memory, said storing means or mechanism in electrical communication with said transmitting means or mechanism; and means or mechanism for playing the digital video or digital audio signals stored in the second memory, said playing means or mechanism connected to the second memory.

30. A system as described in claim 29 wherein the means or mechanism for the first party to charge a fee includes means or a mechanism for transferring money electronically via telecommunications lines to the first party at a location remote from the second memory at the second location.

31. A system as described in claim 30 wherein the connecting means or mechanism comprise a first control unit in possession and control of the first party and a second control unit in possession and control of the second party.

32. A system as described in claim 31 wherein the first control unit comprises a first control panel, first control integrated circuit and a sales random access memory, said sales random access memory and said first control panel in electrical communication with said first control integrated circuit, said second control unit comprising a second control panel, a second control integrated circuit, an incoming random access memory and a playback random access memory, said second control panel, said incoming random access memory and said playback random access memory in electrical communication with said second control integrated circuit.

33. A system as described in claim 32 wherein the telecommunications lines include telephone lines.

34. A system as described in claim 33 wherein the first memory comprises a first hard disk and the second memory comprises a second hard disk.

35. A system as described in claim 34 including a video display and speakers in possession and control of the second party, said video display and speakers in electrical communication with said second control integrated circuit.

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36. A method for transmitting desired digital video or digital audio signals stored in a first memory of a first party at a first party location to a second memory of a second party comprising the steps of:

placing a second party control unit having the second memory by the second party at a desired second party location determined by the second party, said second party location remote from the first party location;

charging a fee by the first party to the second party at a location remote from the second party location so the second party can obtain access to the digital video or digital audio signals possessed by the first party, said first party and said second party in communication via said telecommunications lines;

connecting electronically via telecommunications lines the first memory with the second memory such that the desired digital video or digital audio signals can pass therebetween;

transferring electronically via telecommunications lines the digital video or digital audio signals from a first location with the first memory to the desired second party location with the second memory while the second memory is in possession and control of the second party, said second party location remote from said first location, said first memory in communication with said second memory via the telecommunications lines;

storing the digital video or digital audio signals in the second memory; and playing the digital video or digital audio signals stored in the second memory with the second party control unit.

37. A method as described in claim 36 wherein the step of charging a fee includes the step of charging a fee via telecommunications lines by the first party to the second party at a location remote from the second party location.

38. A method as described in claim 37 wherein the second party has an account and the step of charging a fee includes the step of charging the account of the second party.

39. A method as described in claim 38 wherein the step of charging the account of the second party includes the steps of telephoning the first party controlling use of the first memory by the second party; providing a credit card number of the second party controlling the second memory to the first party controlling the first memory so the second party is charged money.

40. A method as described in claim 39 including after the transferring step, there is the step of repeating the charging a fee, connecting, and transferring steps.

41. A method for transmitting desired digital video or digital audio signals stored on a first memory of a first party to a second memory of a second party comprising the steps of:

selling electronically via telecommunications lines to the second party at a location remote from the first memory by the first party controlling use of the first memory, said second party financially distinct from the first party, said second party in control and in possession of a second party control unit having a receiver and the second memory connected to the receiver;

connecting electronically via telecommunications lines the first memory with the second memory such that the desired digital video or digital audio signals can pass therebetween;

transmitting the desired digital video or digital audio signals from the first memory with a transmitter in control and possession of the first party to the receiver

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connected to the second memory of the second party control unit at the location determined by the second party while said second party control unit is in possession and control of the second party;

storing the digital video or digital audio signals in the second memory; and playing the digital video or digital audio signals stored in the second memory with the second party control unit.

42. A method for transferring desired digital video or digital audio signals from a first party to a second party comprising the steps of:

placing a second party control unit having a second memory by the second party at a desired location determined by the second party;

forming a connection through telecommunications lines between a first memory of a first party and the second memory of the second party, said first memory having said desired digital video or digital audio signals;

selling electronically by the first party to the second party through telecommunications lines, the desired digital video or digital audio signals in the first memory;

transferring the desired digital video or digital audio signals from the first memory of the first party to the second memory of the second party through telecommunications lines; and playing the digital video or digital audio signals stored in the second memory with the second party control unit.

43. A method as described in claim 42 wherein the second party is at a second party location and the step of selling electronically includes the step of charging a fee via telecommunications lines by the first party to the second party at a first party location remote from the second party location.

44. A method as described in claim 43 wherein the second party has an account and the step of charging a fee includes the step of charging the account of the second party.

45. A method as described in claim 44 wherein the step of charging the account of the second party includes the steps of telephoning the first party controlling use of the first memory by the second party; providing a credit card number of the second party controlling the second memory to the first party controlling the first memory so the second party is charged money.

46. A method for transferring desired digital video or digital audio signals comprising the steps of:

placing a second party control unit having a second memory by the second party at a desired second party location determined by the second party;

forming a connection through telecommunications lines between a first memory of a first party and the second memory of a second party, said first memory having said desired digital video or digital audio signals;

incurring a fee by the second party to the first party for the use of telecommunications lines, the desired digital video or digital audio signals in the first memory;

transferring the desired digital video or digital audio signals from the first memory of the first party to the second memory of the second party through telecommunications lines while the second memory is in possession and control of the second party; and playing the digital video or digital audio signals stored in the second memory with the second party control unit.

47. A system for transferring digital video signals from a first party to a second party at a second party location comprising:

a first party control unit having a first memory having a plurality of desired individual video selections as

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desired digital video signals, and means or a mechanism for the first party to charge a fee to the second party for access to the desired digital video signals at a location remote from the second party location;

a second party control unit having a second party control panel, a receiver and a video display for playing the desired digital video signals received by the receiver, said second party control panel connected to the video display and the receiver, said receiver and video display operatively controlled by the second party control panel, said second party control unit remote from the first party control unit, said second party control unit placed by the second party at a second party location determined by the second party which is remote from said first party control unit, said second party choosing the desired digital video signals from the first memory with said second party control panel; and

telecommunications lines connected to the first party control unit and the second party control unit through which the desired digital video signals are electronically transferred from the first memory to the receiver while the second party control unit is in possession and control of the second party after the desired digital video signals are sold to the second party by the first party.

48. A system as described in claim 47 wherein the second party control unit includes a second memory which is connected to the receiver and the video display, said second memory storing the digital video signals that are received by the receiver to provide the video display with the digital video signals.

49. A system as described in claim 48 wherein the first party control unit includes a first party hard disk having a plurality of digital video signals which include the desired digital video signals, and a sales random access memory chip electronically connected to the first party hard disk for storing a replica of the desired digital video signals of the first party's hard disk.

50. A system as described in claim 49 wherein the second party control unit includes a second party hard disk which stores a plurality of digital video signals, and a playback random access memory chip electronically connected to the second party hard disk for storing a replica of the desired digital video signals as a temporary staging area for playback.

51. A system as described in claim 50 wherein the first party control unit includes a first party control integrated circuit which controls and executes commands of the first party and is connected to the first party hard disk, the first party sales random access memory, and the second party control integrated circuit through the telecommunications lines, said first party control integrated circuit and said second party control integrated circuit regulate the transfer of the desired digital video signals; and a first party control panel through which the first party control integrated circuit is programmed and is sent commands and which is connected to the first party control integrated circuit.

52. A system as described in claim 51 wherein the second party control unit includes a second party control integrated circuit which controls and executes commands of the second party and is connected to the second party hard disk, the playback random access memory, and the first party control integrated circuit through the telecommunications lines, said second party control integrated circuit and said first party control integrated circuit regulate the transfer of the desired digital video signals; and a second party control panel through which the second party control integrated circuit is

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programmed and is sent commands and which is connected to the second party integrated circuit.

53. A system as described in claim 52 wherein the second party control unit includes an incoming random access memory chip connected to the second party hard drive and the second party control integrated circuit, and the first party control unit through the telecommunications lines for temporarily storing the desired digital video signals received from the first party's control unit for subsequent storage to the second party hard disk.

54. A system as described in claim 53 wherein the second party control unit includes a video display unit connected to the playback random access memory chip and to the second party integrated circuit for displaying the desired digital video signals.

55. A system as described in claim 47 wherein the means or mechanism for charging a fee includes means or a mechanism for charging a fee via telecommunications lines by the first party to the second party at a location remote from the second party location.

56. A system as described in claim 55 wherein the second party has an account and the means or mechanism for charging a fee includes means or a mechanism for charging the account of the second party.

57. A system as described in claim 56 wherein the means or mechanism for charging the account includes means or a mechanism for charging a credit card number of the second party.

58. A method for transmitting desired digital video signals stored in a first memory having a plurality of individual video selections as digital video signals of a first party at a first party location to a second party at a second party location so the second party can view the desired digital video signals comprising the steps of:

placing by the second party a receiver, and a video display connected to the receiver at the second party location determined by the second party which is remote from the first party location;

charging a fee by the first party to the second party at a location remote from the second party location so the second party can obtain access to the desired digital video signals;

connecting electronically via telecommunications lines the first memory with a receiver of the second party while the receiver is in possession and control of the second party;

choosing the desired digital video signals by the second party from the first memory of the first party so desired video selections are selected;

transmitting the desired digital video signals from the first memory with a transmitter in control and possession of the first party to the receiver of the second party while the receiver is in possession and control of the second party at the second party location determined by the second party; and

displaying the desired video signals received by the receiver on the video display in possession and control of the second party.

59. A method as described in claim 58 wherein the step of charging a fee includes the step of charging a fee via telecommunications lines by the first party to the second party so the second party can obtain access to the desired digital video signals stored on the first memory.

60. A method as described in claim 59 wherein the second party has an account and the step of charging a fee includes the step of charging the account of the second party.

61. A method as described in claim 60 wherein the step of charging the account of the second party includes the steps

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of telephoning the first party controlling use of the first memory by the second party; providing a credit card number of the second party controlling the second memory to the first party controlling the first memory so the second party is charged money.

62. A system for transferring digital audio signals from a first party to a second party at a second party location comprising:

a first party control unit having a first memory having a plurality of desired individual songs as desired digital audio signals, and means or a mechanism for the first party to charge a fee to the second party for access to the desired digital audio signals at a location remote from the second party location;

a second party control unit having a second party control panel, a receiver and speakers for playing the desired digital audio signals received by the receiver, said second party control panel connected to the speakers and the receiver, said receiver and speakers operatively controlled by the second party control panel, said second party control unit remote from the first party control unit, said second party control unit placed by the second party at a second party location determined by the second party which is remote from said first party control unit, said second party choosing the desired digital audio signals from the first memory with said second party control panel; and

telecommunications lines connected to the first party control unit and the second party control unit through which the desired digital audio signals are electronically transferred from the first memory to the receiver while the second party control unit is in possession and control of the second party after the desired digital audio signals are sold to the second party by the first party.

63. A method for transmitting desired digital audio signals stored in a first memory having a plurality of individual songs as digital audio signals of a first party at a first party location to a second party at a second party location so the second party can listen to the desired digital audio signals comprising the steps of:

placing by the second party a receiver, and speakers connected to the receiver at the second party location determined by the second party which is remote from the first party location;

charging a fee by the first party to the second party at a location remote from the second party location so the second party can obtain access to the desired digital audio signals;

connecting electronically via telecommunications lines the first memory with a receiver of the second party while the receiver is in possession and control of the second party;

choosing the desired digital audio signals by the second party from the first memory of the first party so desired songs are selected;

transmitting the desired digital audio signals from the first memory with a transmitter in control and possession of the first party to the receiver of the second party while the receiver is in possession and control of the second party at the second party location determined by the second party; and

playing the desired audio signals received by the receiver on the speakers in possession and control of the second party.

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(54) **SYSTEM AND METHOD FOR TRANSMITTING DESIRED DIGITAL VIDEO OR DIGITAL AUDIO SIGNALS**

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(52) **U.S. Cl.** ..... **705/26; 705/52; 705/57**

(58) **Field of Classification Search** ..... None  
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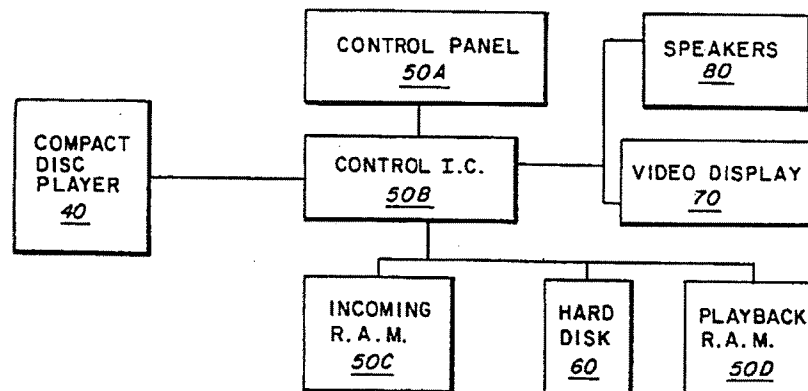
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**ABSTRACT**

A method for transferring desired digital video or audio signals. The method comprises the steps of forming a connection through telecommunications lines between a first memory of a first party and a second memory of a second party. The first memory has the desired digital video or audio signals. Then, there is the step of selling electronically by the first party to the second party through telecommunications lines, the desired digital video or audio signals in the first memory. Then, there is the step of transferring the desired digital video or audio signals from the first memory of the first party to the second memory of the second party through the telecommunications lines while the second memory is in possession and control of the second party. Additionally, there is a system for transferring digital video or audio signals.



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